

General Training On Methodologies For Geological Disposal in North America



# Interactions With the Public-Lessons Learned





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# Public Acceptance for Nuclear Programs is difficult to Obtain



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# Is Social Acceptance Necessary?

- In Totalitarian Societies, the Public does not matter
- In Democratic Societies, Successful Waste Management Programs must maintain sufficient Public Acceptance, or at least Public Tolerance, or <u>perish</u>



# Science and Technology is Necessary, but Insufficient for a Successful Waste Management Program

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# Waste Management Organizations Must Obtain and Maintain General Societal Support or at Least Acceptance/Tolerance

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#### Programs Must Be Able to Successfully Interact with the General Public To Deal With Public Concerns

- Anti-Nuclear Opposition Will Happen
   Often Externally Driven
- NIMBY Will Happen
- Political Challengers Will use the issue for Political Gain



# **Waste Management Organizations are Easy Targets** • Government or Nuclear Industry Related Organizations Not easily understood by the Public -Risk & Consequences -Involuntary -Lack of personal control • Easy target for fear and dread attacks -Nuclear Weapons -Nuclear Power Accidents -Nuclear health effects: -Genetic Birth Defects General Training On Methodologies For Geological Disposal in North America IAEA Network of Centers of Excellence **Successful Implementing Organizations Must:** • Understand Political/Public/Group Dynamics Manage Interfaces -Political/Legal -Public -National -Regional -Local Successfully Communicate & Accommodate Feedback -Political Structural Organizations -General Public -Special Interest Groups General Training On Methodologies For Geological Disposal in North America IAEA Network of Centers of Excellence

## Who Is The Public?

- The Voters
  - -National
  - -Regional
  - -Local
- The Special Interest Groups?
  - -NGOs Claim to Represent the Public
  - -Often have social agenda beyond Waste
    - -No solution is possible



# **Understanding Public Information Factors**

- · Perceptions are Reality
  - -Degrees of knowledge/concerns
- Whose Information is Heard by the Public?
  - -Implementing Organization?
  - -Opposition?
- How is Message Translated to the Public?
  - -Print Media
  - -Radio & Television Media
- Importance of "Opinion Leaders"

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# **Prepare for Social Interfaces**

- Recognize That External Public/Group Interfaces are Important
  - -Establish Internal Organizational Structure & Staff
  - -Develop Messages that are accurate
  - -Develop Messages that are understandable to the audience
  - -Know when to just listen and when and how to respond
  - -Be Dynamic and Appropriately Responsive
  - -Train your personnel

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#### **Important External Resources**

- Trust and Confidence In Messenger is critical
  - -Organizational Credibility
    - -National & International Academies
    - -Academia
    - -Industry
    - -Government
    - -NGOs
- Independent Safety Officials are very important
  - -National
  - -Regional (State)
  - -Local



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# **Public Communications Factors**

- Understand & Address Audience's Concerns
  - -Focus on their issues, not yours
- · Communication Style Is Important
  - -Talk at their level
  - -Be credible & competent
  - -Minimize Formal Presentations & Speeches
  - -Show empathy & compassion : be human
  - -Be fair and caring
- Learn from successful politician's communication styles

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#### **Public Communications Factors-Continued**

- Recognize Occupational & Gender Differences
  - -Nurses vs. Engineers
  - -Hunters vs. Gathers
- Expect your remarks to be recorded to be used against you later
- Expect "trap" questions
- · Be aware of the people who are listening

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## **General Public Communications Tactics**

- Balance Societal Needs
  - -Intergenerational Ethics
  - -Options & Trade Offs
- Employ "Jiu Jitsu" techniques when possible
  - -Utilize their point to bring out another perspective
- Cultivate and enlist support from allies
- Engage your opponents on their Turf at the right time




# **General Public Communications Tactics-Continued**

- BENEFITS NOT COMPENSATION
  - -Compensation maybe understood as payments for health damages and an admission of damage or impacts to the Community
  - -Benefits are payments to build strong local and regional communities that can be support the waste management facility.
    - --Not related to impacts or damages
    - --A good neighbor policy with mutual benefits:
    - ---educated, safe & healthy workforce
    - ---good transportation networks

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# **An Interaction Approach-Covey**

- 1. Be Proactive
- 2. Begin With End in Mind
- 3. Put first things first
- 4. Think Win-Win
- 5. Seek First to Understand, then be Understood
- 6. Create Alternative Solutions Together (Synergize)

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#### Risk Communication-Don'ts\*

- Be judgmental
- Attack those with higher credibility
- Repeat negative statements
- Be flippant with humor
- Say "I know how you feel"
- Overreact to emotional outbursts
- Use acronyms or jargon
- Speculate about what you do not know

\*McDaniel Lambert



#### **Risk Communication-Do's\***

- Empathize
- Put yourself in their position
- · Assume a listening posture
- Be aware of non-verbal communication
- Maintain eye contact
- Use language your audience can understand
- Use personal pronouns
- · Release information early
- Tell the truth
- Provide a way to follow up

\*McDaniel Lambert

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#### What Not to Do:

# **Risk Communication and Nuclear Power**

- Presumed that quantitative risk estimates determine attitudes toward technology
- Comparisons chosen to trivialize nuclear risks, e.g., "safer than riding a bicycle"
- Implicit argument: people are irrational to worry about small risks such as from nuclear power

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## What Not to Do:

# Risk Communication and Nuclear Power

- Public disagreements between industry and Nuclear Regulatory Commission brought competence of regulators into question
- Concern that plant would blow up like nuclear bomb not addressed because such accidents are physically impossible



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#### Why is Radioactive Waste Disposal Difficult?

- Fear of cancer
- · Mystique of radiation
- Linkage to nuclear power
- · Perceived unfairness to nearby residents
- Non-health concerns, e.g., property values, institutional durability and integrity

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#### It Could Be Worse!

- Operating experience of nuclear power plants has been excellent for the past decade
- Concerns with other energy sources are visible, e.g., CO<sub>2</sub>, imported oil and related international tensions
- Medical benefits of radiation-based technologies appreciated

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# **Insights for Radioactive Waste Communications**

- When possible, make risks controllable, voluntary, and well-managed - Look for issues on which to give the community some control
- · Emphasize independent oversight
- Explain monitoring plans and monitoring requirements - Measurable concentrations are more controllable than invisible risks - understand the value of monitoring and openness about data
- Emphasize benefits



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#### **Insights for Radioactive Waste Communications**

- 2. Understand that the community expects to be protected and accept this responsibility
- Don't "trivialize" the risks; this indicates complacency
- Don't expect hazardous substances to be "innocent until proven guilty"
- Don't expect national benefits to justify local risks
- Don't mix cancer and cost in the same sentence

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#### **Insights for Radioactive Waste Communications**

- 3. Treat people's concerns with respect and compassion
- Fear of cancer and substances that might add to cancer risk is reasonable
- Don't be defensive or have a closed mind to the possibility that not every contingency has been considered
- Personalize your responses when appropriate

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# **Insights for Radioactive Waste Communications**

- 4. Protect your credibility
- Associate your position with that of more credible sources regarding risk
- Don't send engineers to discuss medical issues (especially low dose radiation health risks) or M.D.s to discuss hydrogeology
- Say "I don't know" when you don't, and follow up with information later




#### **Insights for Radioactive Waste Communications**

- 5. Don't make enemies out of potential allies
- Keep your workers informed about your risk issues and how you are managing them
- Recognize that you and your regulators have a common interest in safety and in good relations with the community

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#### **Public Communications Scenarios**

- Is it Safe?
- Can you guarantee safety?
- Why are you doing this?
- · Why are you here?
- Who do you represent?
- What does it mean to me, my family, and community?
- Isn't it true that "XXXXX" can happen?

